

## Q1 -

SQLQuery1.sql - wp...UAD\sa...zahakat (ASUAD\sa...zahakat (66)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Activity Monitor

Object Explorer Details

Connect ▾

86186\_rlogas  
86186\_sazhakat  
Database Diagrams  
Tables  
System Tables  
FileTables  
External Tables  
Graph Tables  
dbo.ACTIVITY  
dbo.BOOKING  
dbo.CLEANING  
dbo.CONDO  
dbo.CONDO  
dbo.EMPLOYEE  
dbo.FAMILY  
dbo.GUEST  
dbo.GUIDE  
dbo.GUIDE\_LEVEL  
dbo.HOUSEKEEPER  
dbo.PRODUCT  
dbo.RESERVATION  
Views  
External Resources  
Synonyms  
Programmability  
Service Broker  
Storage  
Security  
86186\_slarosa  
86186\_slin137  
86186\_smmonro2  
86186\_smyle4  
86186\_sohmura  
86186\_spamplon  
86186\_sposev1

SQLQuery1.sql - wp...UAD\sa...zahakat (66)\* SQLQuery2.sql - wp...UAD\sa...zahakat (63)\* SQLQuery2.sql - wp...UAD\sa...zahakat (67)\*

```
DROP TABLE IF EXISTS New_Condo_A;
SELECT * FROM CONDO
WHERE BldgNum = 'A';
```

Results Messages

BldgNum	UnitNum	SqrFt	Bdms	Baths	Dailyrate	
1	A	101	1030	2	1	130.00
2	A	102	1164	2	2	145.00
3	A	103	845	1	1	110.00
4	A	104	1164	2	2	145.00
5	A	105	1575	3	2	160.00
6	A	201	1030	2	1	130.00
7	A	202	1164	2	2	145.00
8	A	203	845	1	1	110.00
9	A	204	1164	2	2	145.00
10	A	205	1575	3	2	160.00
11	A	301	1030	2	1	130.00
12	A	302	1164	2	2	145.00
13	A	303	845	1	1	110.00
14	A	304	1164	2	2	145.00
15	A	305	1575	3	2	160.00

Query executed successfully.

## Q2 -

SQLQuery1.sql - wp...UAD\sa...zahakat (ASUAD\sa...zahakat (66)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute Activity Monitor

Object Explorer Details

Connect ▾

86186\_rlogas  
86186\_sazhakat  
Database Diagrams  
Tables  
System Tables  
FileTables  
External Tables  
Graph Tables  
dbo.ACTIVITY  
dbo.BOOKING  
dbo.CLEANING  
dbo.CONDO  
dbo.CONDO  
dbo.EMPLOYEE  
dbo.FAMILY  
dbo.GUEST  
dbo.GUIDE  
dbo.GUIDE\_LEVEL  
dbo.HOUSEKEEPER  
dbo.PRODUCT  
dbo.RESERVATION  
Views  
External Resources  
Synonyms  
Programmability  
Service Broker  
Storage  
Security  
86186\_slarosa  
86186\_slin137  
86186\_smmonro2  
86186\_smyle4  
86186\_sohmura  
86186\_spamplon  
86186\_sposev1

SQLQuery1.sql - wp...UAD\sa...zahakat (66)\* SQLQuery3.sql - wp...UAD\sa...zahakat (63)\* SQLQuery2.sql - wp...UAD\sa...zahakat (67)\*

```
DROP TABLE IF EXISTS New_Condo_A;
SELECT *
INTO New_Condo_A
FROM Condo
WHERE BldgNum = 'A';

UPDATE New_Condo_A
SET DailyRate = DailyRate * 1.15, SqrFt = SqrFt + 250
WHERE UnitNum IN (105, 205, 305);

SELECT * FROM New_Condo_A
WHERE UnitNum IN (105, 205, 305);
```

Results Messages

BldgNum	UnitNum	SqrFt	Bdms	Baths	Dailyrate	
1	A	105	1825	3	2	184.00
2	A	205	1825	3	2	184.00
3	A	305	1825	3	2	184.00

Query executed successfully.

### Q3-

SQLQuery1.sql - wpcmssql.cloud.wpcarey.asu.edu/CIS407.86186\_sazhakat (ASUAD\sazhakat (66)) - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

New Query Execute Activity Monitor

Object Explorer Object Explorer Details

86186\_rlogas 86186\_sazhakat Database Diagrams Tables System Tables FileTables External Tables Graph Tables dbo.ACTIVITY dbo.BOOKING dbo.CLEANING dbo.CONDO dbo.EMPLOYEE dbo.FAMILY dbo.GUEST dbo.GUIDE dbo.GUIDE\_LEVEL dbo.HOUSEKEEPER dbo.PRODUCT dbo.RESERVATION Views External Resources Synonyms Programmability Service Broker Storage Security 86186\_starosa 86186\_slin137 86186\_smmono2 86186\_smyle4 86186\_sohmura 86186\_spamlon 86186\_sposev1

SQLQuery1.sql - wp...UAD\sazhakat (66) SQLQuery3.sql - wp...UAD\sazhakat (63) SQLQuery2.sql - wp...UAD\sazhakat (67)

```
SELECT *  
INTO New_Condo_A  
FROM Condo  
WHERE BldgNum = 'A';  
  
UPDATE New_Condo_A  
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250  
WHERE UnitNum IN (105, 205, 305);  
  
DELETE FROM New_Condo_A  
WHERE Bdms = 2 AND DailyRate > 130;  
  
SELECT *  
FROM New_Condo_A  
WHERE Bdms = 2;
```

Results Messages

BldgNum	UnitNum	SqrFt	Bdms	Baths	DailyRate	
1	A	101	1030	2	1	130.00
2	A	201	1030	2	1	130.00
3	A	301	1030	2	1	130.00

Query executed successfully.

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### Q4-

SQLQuery1.sql - wpcmssql.cloud.wpcarey.asu.edu/CIS407.86186\_sazhakat (ASUAD\sazhakat (66)) - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

New Query Execute Activity Monitor

Object Explorer Object Explorer Details

86186\_rlogas 86186\_sazhakat Database Diagrams Tables System Tables FileTables External Tables Graph Tables dbo.ACTIVITY dbo.BOOKING dbo.CLEANING dbo.CONDO dbo.EMPLOYEE dbo.FAMILY dbo.GUEST dbo.GUIDE dbo.GUIDE\_LEVEL dbo.HOUSEKEEPER dbo.PRODUCT dbo.RESERVATION Views External Resources Synonyms Programmability Service Broker Storage Security 86186\_starosa 86186\_slin137 86186\_smmono2 86186\_smyle4 86186\_sohmura 86186\_spamlon 86186\_sposev1

SQLQuery1.sql - wp...UAD\sazhakat (66) SQLQuery3.sql - wp...UAD\sazhakat (63) SQLQuery2.sql - wp...UAD\sazhakat (67)

```
FROM Condo  
WHERE BldgNum = 'A';  
  
UPDATE New_Condo_A  
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250  
WHERE UnitNum IN (105, 205, 305);  
  
DELETE FROM New_Condo_A  
WHERE Bdms = 2 AND DailyRate > 130;  
  
SELECT GuideID, CertDate, CertRenewDate  
FROM GUIDE  
WHERE DATEDIFF(YEAR, CertRenewDate, GETDATE()) >= 2 OR CertRenewDate IS NULL;  
  
SELECT *  
FROM New_Condo_A
```

Results Messages

GuideID	CertDate	CertRenewDate
AM01	2018-08-12	2020-08-13
KS01	2019-07-12	2021-07-11
KS02	2019-08-05	2021-08-05
MC01	2019-05-22	2021-05-22
MR01	2019-06-27	2021-06-20
RH01	2019-07-21	2021-07-20
SL01	2018-08-18	2021-08-10

BldgNum	UnitNum	SqrFt	Bdms	Baths	DailyRate
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Query executed successfully.

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## Q5-

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases, including 86186\_rlogas and 86186\_sazhakat. The central pane displays a query window with the following T-SQL code:

```
SELECT *  
INTO New_Condo_A  
FROM Condo  
WHERE BldgNum = 'A';  
  
UPDATE New_Condo_A  
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250  
WHERE UnitNum IN (105, 205, 305);  
  
DELETE FROM New_Condo_A  
WHERE Bdrms = 2 AND DailyRate > 130;  
  
SELECT GuestID AS "Guest ID"  
FROM BOOKING  
WHERE BldgNum = 'A' AND StartDate BETWEEN '2021-05-01' AND '2021-05-31';
```

The Results tab shows the output of the last SELECT statement:

Guest ID
1 G2
2 G19
3 G17

A status bar at the bottom indicates "Query executed successfully." and "wpcmssql.cloud.wpcarey.asu.... | ASUAD\sazhakat (66) | 86186\_sazhakat | 00:00:00 | 3 rows".

## Q6-

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases, including 86186\_rlogas and 86186\_sazhakat. The central pane displays a query window with the following T-SQL code:

```
SELECT ResID, GuestID, EmpID, ActID, GuideID, RDate, NumberInParty  
FROM (  
    SELECT ResID, GuestID, EmpID, ActID, GuideID, RDate, NumberInParty,  
    ROW_NUMBER() OVER (ORDER BY RDate DESC) AS RowNum  
    FROM RESERVATION  
) AS RankedReservations  
WHERE RowNum BETWEEN 21 AND 30;
```

The Results tab shows the output of the query:

ResID	GuestID	EmpID	ActID	GuideID	RDate	NumberInParty
1 139	G6	NULL	H3	DH01	2023-06-25	4
2 134	G4	NULL	B8	GZ01	2023-06-23	4
3 137	G10	NULL	R6	GZ01	2023-06-21	3
4 133	G22	NULL	R2	M001	2023-06-18	3
5 136	G14	NULL	B4	SL01	2023-06-12	5
6 127	G11	NULL	H3	DH01	2023-06-12	5
7 132	G20	NULL	HB3	RH01	2023-06-09	5
8 118	G2	NULL	B3	RH01	2023-06-30	5
9 124	G7	NULL	H3	DH01	2023-05-27	6
10 128	G19	NULL	H1	AM01	2023-05-23	5

A status bar at the bottom indicates "Query executed successfully." and "wpcmssql.cloud.wpcarey.asu.... | ASUAD\sazhakat (66) | 86186\_sazhakat | 00:00:00 | 10 rows".

## Q7-

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases and tables under the connection '86186\_sazhakat'. The central pane displays a T-SQL script for updating a table named 'New\_Condo\_A' based on specific conditions. The 'Results' tab below shows the output of the query, which includes five rows of data. The status bar at the bottom indicates the query was executed successfully.

```
INTO New_Condo_A
FROM Condo
WHERE BldgNum = 'A';

UPDATE New_Condo_A
SET DailyRate = DailyRate + .2, SqFt = SqFt + 250
WHERE Unitnum IN (105, 205, 305);

DELETE FROM New_Condo_A
WHERE Bdrms = 2 AND DailyRate > 130;

SELECT EmpID,
       Salary / 12 AS "Monthly Salary (Unformatted)",
       CAST(Salary / 12 AS DECIMAL(8, 2)) AS "Monthly Salary (2 Decimals)",
       CAST(Salary / 12 AS INT) AS "Monthly Salary (Rounded)"
  FROM EMPLOYEE
 WHERE Department = 'Marketing';
```

EmpID	Monthly Salary (Unformatted)	Monthly Salary (2 Decimals)	Monthly Salary (Rounded)
GL01	8750.000000	8750.00	8750
GL01	10000.000000	10000.00	10000
JL01	7916.666666	7916.67	7916
MJ01	12500.000000	12500.00	12500
OL01	9166.666666	9166.67	9166

## Q8-

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists several databases and tables under the connection '86186\_sazhakat'. The central pane displays a T-SQL script for selecting data from the 'RESERVATION' table, joining it with the 'ACTIVITY' table, and filtering results for the year 2021, excluding specific activity IDs ('RH01' and 'MR01'). The 'Results' tab below shows the output of the query, which includes seven rows of data. The status bar at the bottom indicates the query was executed successfully.

```
--- Hiding ActID, 2021 reservations, Exclude 'RH01' and 'MR01'

SELECT R.ResID, R.GuestID, R.ActID, R.RDate, R.NumberInParty, R.GuideID
FROM RESERVATION R
JOIN ACTIVITY A ON R.ActID = A.ActID
WHERE YEAR(R.Rdate) = 2021
      AND R.ActID NOT IN ('RH01', 'MR01');
```

ResID	GuestID	ActID	RDate	NumberInParty	GuideID
69	G18	HB5	2021-05-19	6	KS02
73	G17	HB5	2021-07-14	3	KS02
83	G12	HB1	2021-07-26	7	KS02
88	G13	HB5	2021-07-19	4	KS02
90	G1	HB1	2021-07-21	4	KS02
96	G8	HB1	2021-08-22	4	KS02
100	G23	HB4	2021-08-26	6	KS03

## Q9-

SQLQuery1.sql - wpcmssql.cloud.wpcarey.asu.edu\CI5407.86186\_sazhakat (ASUAD\sazhakat (66)) - Microsoft SQL Server Management Studio

```

INTO New_Condo_A
FROM Condo
WHERE BldgNum = 'A';

UPDATE New_Condo_A
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250
WHERE UnitNum IN (105, 205, 305);

DELETE FROM New_Condo_A
WHERE Bdrms = 2 AND DailyRate > 130;

SELECT MAX(DATEDIFF(YEAR, Hiredate, GETDATE())) AS "Most Years",
       MIN(DATEDIFF(YEAR, Hiredate, GETDATE())) AS "Least Years",
       FLOOR(AVG(DATEDIFF(YEAR, Hiredate, GETDATE()))) AS "Average Years"
FROM EMPLOYEE;

```

100 %

Results Messages

	Most Years	Least Years	Average Years
1	13	3	9

Query executed successfully.

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## Q10-

SQLQuery1.sql - wpcmssql.cloud.wpcarey.asu.edu\CI5407.86186\_sazhakat (ASUAD\sazhakat (66)) - Microsoft SQL Server Management Studio

```

INTO New_Condo_A
FROM Condo
WHERE BldgNum = 'A';

UPDATE New_Condo_A
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250
WHERE UnitNum IN (105, 205, 305);

DELETE FROM New_Condo_A
WHERE Bdrms = 2 AND DailyRate > 130;

SELECT BldgNum, UnitNum, SqrFt, Bdrms, Baths, DailyRate
FROM CONDO
WHERE (BldgNum = 'C' AND Bdrms = 2 AND DailyRate > 130)
      OR (BldgNum = 'B' AND Bdrms = 3 AND DailyRate > 145);

```

100 %

Results Messages

BldgNum	UnitNum	SqrFt	Bdms	Baths	DailyRate	
1	B	105	1575	3	2	160.00
2	B	305	1575	3	2	160.00
3	C	102	1164	2	2	145.00
4	C	104	1164	2	2	145.00
5	C	202	1164	2	2	145.00
6	C	204	1164	2	2	145.00
7	C	302	1164	2	2	145.00
8	C	304	1164	2	2	145.00

Query executed successfully.

Ln 1 Col 1 INS

## Q11-

SQL Server Management Studio window showing a query execution process:

Object Explorer shows the database `86186_sazhakat` with various tables like `86186_rlogas`, `86186_sazhakat`, etc.

SQL Query 1 (Query 1) contains the following T-SQL code:

```
DROP TABLE IF EXISTS New_Condo_A;

SELECT *
INTO New_Condo_A
FROM Condo
WHERE BldgNum = 'A';

UPDATE New_Condo_A
SET DailyRate = DailyRate + .2, SqrFt = SqrFt + 250
WHERE UnitNum IN (105, 205, 305);

DELETE FROM New_Condo_A
WHERE Bdms = 2 AND DailyRate > 130;

SELECT GuestID, YEAR(StartDate) AS "Year", COUNT(*) AS "No of Visits"
FROM BOOKING
GROUP BY GuestID, YEAR(StartDate)
HAVING COUNT(*) > 5
ORDER BY "Year" ASC;
```

The results pane shows a table with three rows:

	GuestID	Year	No of Visits
1	G10	2021	6
2	G10	2022	8
3	G9	2022	6

Message bar: Query executed successfully.

## Q12-

SQL Server Management Studio window showing a query execution process:

Object Explorer shows the database `86186_sazhakat` with various tables like `86186_kchao`, `86186_kwodar9`, etc.

SQL Query 2 (Query 1) contains the following T-SQL code:

```
-- find duplicate bookings
WITH DuplicateBookings AS (
    SELECT
        GuestID,
        StartDate,
        EndDate,
        BldgNum,
        UnitNum,
        COUNT(*) AS NumberOfVisits
    FROM BOOKING
    GROUP BY GuestID, StartDate, EndDate, BldgNum, UnitNum
    HAVING COUNT(*) > 1
)

-- Query to get all guest details with duplicate number of visits
SELECT
    G.GuestID,
    G.LName,
    G.FName,
    DB.StartDate,
    DB.EndDate,
    DB.BldgNum,
    DB.UnitNum,
    DB.NumberOfVisits
FROM GUEST G
INNER JOIN DuplicateBookings DB ON G.GuestID = DB.GuestID;
```

The results pane shows a table with one row:

	GuestID	LName	FName	StartDate	EndDate	BldgNum	UnitNum	NumberOfVisits
1	G21	Jeffreys	Tim	2021-07-06	2021-07-13	A	203	2

Message bar: Query executed successfully.

### Q13-

SQLQuery1.sql - wp...UAD\sa... (66) - Microsoft SQL Server Management Studio

```
SELECT *  
INTO New_Condo_A  
FROM Condo  
WHERE BlgNum = 'A';  
  
UPDATE New_Condo_A  
SET DailyRate = DailyRate + .2, SqFt = SqFt + 250  
WHERE Unitnum IN (105, 205, 305);  
  
DELETE FROM New_Condo_A  
WHERE Bdms = 2 AND DailyRate > 130;  
  
DROP TABLE IF EXISTS New_Condo_A;  
  
SELECT A.ActID,  
       COUNT(*) AS "Reservation Count",  
       SUM(R.NumberInParty) AS "Party Count"  
FROM RESERVATION AS R  
INNER JOIN ACTIVITY AS A ON R.ActID = A.ActID  
WHERE A.ActID LIKE 'HB%' AND YEAR(R.RDate) = 2021  
GROUP BY A.ActID;
```

ActID	Reservation Count	Party Count
1 HB1	3	15
2 HB2	1	5
3 HB3	1	5
4 HB4	1	6
5 HB5	3	13

Query executed successfully.

### Q14-

SQLQuery2.sql - wp...UAD\sa... (148) - Microsoft SQL Server Management Studio

```
-- Calculate and display the total number of party participants and total reservation count for all horseback riding activities in 2021  
-- Expanding to include GuestID and GuideID for each activity  
  
SELECT  
    R.ActID,  
    R.GuestID,  
    R.GuideID,  
    COUNT(?) AS ReservationCount,  
    SUM(R.NumberInParty) AS PartyCount  
FROM RESERVATION R  
JOIN ACTIVITY A ON R.ActID = A.ActID  
WHERE YEAR(R.RDate) = 2021  
    AND R.ActID LIKE 'HB'  
GROUP BY R.ActID, A.Description, R.GuideID, R.GuestID  
ORDER BY R.ActID;
```

ActID	GuestID	GuideID	ReservationCount	PartyCount
1 HB1	G1	KS02	1	4
2 HB1	G12	KS02	1	7
3 HB1	G8	KS02	1	4
4 HB2	G5	MR01	1	5
5 HB3	G20	RH01	1	5
6 HB4	G23	KS03	1	6
7 HB5	G13	KS02	1	4
8 HB5	G17	KS02	1	3
9 HB5	G18	KS02	1	6

Query executed successfully.

## Q15-

SQLQuery2.sql - wpcmsql.cloud.wpcarey.asu.edu\CI5407.86186\_sazhakat (ASUAD\sazhakat (148)) - Microsoft SQL Server Management Studio

```
-- I am displaying count for each guide in 2021, with the order result by Guide ID
SELECT
    R.GuideID,
    R.ActID,
    G.GuestID,
    SUM(R.NumberInParty) AS TotalPartyCount,
    COUNT(*) AS ReservationCount
FROM RESERVATION R
INNER JOIN GUEST G ON R.GuestID = G.GuestID
INNER JOIN ACTIVITY A ON R.ActID = A.ActID
WHERE YEAR(R.RDate) = 2021
GROUP BY R.GuideID, R.ActID, G.GuestID
ORDER BY R.GuideID;
```

Object Explorer

GuideID	ActID	GuestID	TotalPartyCount	ReservationCount
AM01	H1	G1	4	1
AM01	H1	G19	5	1
AM01	R3	G19	5	1
AM01	R3	G22	3	1
BR01	R8	G16	3	1
BR01	R8	G18	6	1
BR01	R8	G2	5	1
BR01	R8	G4	4	1
BR01	R8	G5	5	1
DH01	H3	G10	3	1
DH01	H3	G11	5	1
DH01	H3	G7	6	1
DH01	H3	G8	4	1
DH01	R5	G6	6	2
GZ01	B8	G4	4	1
GZ01	H4	G15	4	1
GZ01	H4	G21	6	1

Results Messages

Query executed successfully.

## Q16-

SQLQuery2.sql - wpcmsql.cloud.wpcarey.asu.edu\CI5407.86186\_sazhakat (ASUAD\sazhakat (148)) - Microsoft SQL Server Management Studio

```
-- Displaying Month and date, ordering by RMonth and ActID
SELECT
    DATEPART(MONTH, R.RDate) AS RMonth,
    R.ActID,
    G.GuestID,
    R.RDate AS RDate,
    COUNT(*) AS ReservationCount
FROM RESERVATION R
JOIN GUEST G ON R.GuestID = G.GuestID
WHERE YEAR(R.RDate) = 2021
GROUP BY DATEPART(MONTH, R.RDate), R.ActID, G.GuestID, R.RDate
ORDER BY RMonth, R.ActID;
```

Object Explorer

RMonth	ActID	GuestID	RDate	ReservationCount
5	B3	G2	2021-05-28	1
5	H1	G1	2021-05-21	1
5	H1	G19	2021-05-21	1
5	H3	G7	2021-05-27	1
5	H85	G18	2021-05-19	1
5	R1	G18	2021-05-19	1
6	B4	G14	2021-06-10	1
6	B8	G4	2021-06-21	1
6	H3	G11	2021-06-10	1
6	H3	G8	2021-06-23	1
6	HB3	G20	2021-06-02	1
6	R1	G14	2021-06-25	1
6	R2	G22	2021-06-14	1
6	R6	G10	2021-06-19	1
7	B2	G13	2021-07-29	1
7	B2	G16	2021-07-09	1

Results Messages

Query executed successfully.